RAW SEQUENCE LISTING

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Application Serial Number:	10/532,423
Source:	1FWO
Date Processed by STIC:	10/6/06

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IFWO

RAW SEQUENCE LISTING DATE: 10/06/2006
PATENT APPLICATION: US/10/532,423 TIME: 10:09:14

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3 <110> APPLICANT: Keietsu ABE et al.
 5 <120> TITLE OF INVENTION: METHOD FOR THE PRODUCTION OF USEFUL PRODUCTS BY MEANS OF
         DECOMPOSITION OF PLASTICS BY MICROORGANISMS
 8 <130> FILE REFERENCE: 4600-0112PUS1
10 <140> CURRENT APPLICATION NUMBER: US 10/532,423
11 <141> CURRENT FILING DATE: 2005-04-22
                                                        see p.6
13 <150> PRIOR APPLICATION NUMBER: PCT/JP03/11861
14 <151> PRIOR FILING DATE: 2003-09-17
16 <150> PRIOR APPLICATION NUMBER: JP 2002-30884
17 <151> PRIOR FILING DATE: 2002-10-23
19 <150> PRIOR APPLICATION NUMBER: JP 2002-371246
20 <151> PRIOR FILING DATE: 2002-12-24
22 <160> NUMBER OF SEQ ID NOS: 46
24 <170> SOFTWARE: PatentIn version 3.1
26 <210> SEO ID NO: 1
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70 130 135 140	y S
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104 50 60 106 acc too aag acc aca act gtg aac gag gga ctt ctc ggt ggc ctc o	ctc 240
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	Gln Leu															
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201 Asp Lys Val Ala Cys Gln Gly Val Gly Gly Leu Tyr Thr Gly Gly Leu 202 85 204 atg caa aat gct ctc cct cag aac acc gac ccc ggc gct atc tcc acc 336 205 Met Gln Asn Ala Leu Pro Gln Asn Thr Asp Pro Gly Ala Ile Ser Thr 206 100 208 gcg aag tcg ctc ttt gaa caa gcc agc agc acc aag tgc cct aac acc cag 3384 209 Ala Lys Ser Leu Phe Glu Gln Ala Ser Thr Lys Cys Pro Asn Thr Gln 210 115 210 125 212 atc gtg gcc ggt gga tac agt caa ggt agt gcc gtc atc gac aac gcc 213 Ile Val Ala Gly Gly Tyr Ser Gln Gly Ser Ala Val Ile Asp Asn Ala 214 130 216 gtc caa caa ctc tcc gcc gaa gtc aag gga agg ag ag gtt gtt 217 Val Gln Gln Leu Ser Ala Glu Val Lys Asp Lys Val Lys Gly Val Val 218 145 210 155 211 Acc ccc aac gac acc tc tcgt acc ctc cag gac ag ggt cag ag gtc aag ggt cag acc ccc aac 217 Val Gln Gln Fhr Arg Asn Leu Gln Asp Lys Gly Gly Ile Phe Asn 221 Phe Phe Gly Phe Thr Arg Asn Leu Gln Asp Lys Gly Gln Ile Pro Asn 222 165 235 Tyr Pro Lys Asp Asn Val Lys Val Phe Cys Ala Met Gly Asp Leu Val 226 180 185 228 tgc gat ggc acg ctt att gtc acc gcc gcc cat ttg acc att acc att 229 Cys Asp Gly Thr Leu Ile Val Thr Ala Ala His Leu Thr Tyr Thr Ile 230 195 232 aat gcg cc gag gct gcc tc tt tc ctt gcg tcg aag gtc cag tc acc acc atc 2429 Cys Asp Gly Thr Leu Ile Val Thr Ala Ala His Leu Thr Tyr Thr Ile 230 195 232 at gcg acc gct gcc tc tt tc ctt gcg tcg aag gtc cag tca gcc gcc 231 Asn Ala Pro Glu Ala Ala Ser Phe Leu Ala Ser Lys Val Gln Ser Ala 241 <212> TYPE: DNA 242 <223> FORATION: S 243				017				0,0	001	501	200	-	001	_,,	204	OL J			
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245 <221> NAME/KEY: CDS 246 <222> LOCATION: (1) (780) 248 <400> SEQUENCE: 5 249 atg aat ctc cgc ctg ttg acc ctt gct ctc gct gtg gcg gct gca 48 250 Met Asn Leu Arg Leu Leu Thr Leu Ala Leu Ala Ala Val Ala Ala Ala Ala 251 1 5 10 15 253 agt cca gta gat atc cag gaa cgc cag ctc tcc ggc gga aac gag ctg 96 254 Ser Pro Val Asp Ile Gln Glu Arg Gln Leu Ser Gly Gly Asn Glu Leu 255 20 25 30 257 cga gat ggc tct tgc aag ccg atc acc ttc atc ttt gcc cgc gct tcc 144 258 Arg Asp Gly Ser Cys Lys Pro Ile Thr Phe Ile Phe Ala Arg Ala Ser 259 35 40 45 261 aca gag cca gga ctt ttg ggt ata tca act ggc cct gca gtc tgc aat 192	242	<213	3 > OI	RGANI	ISM:	Aspe	ergil	llus	ory	zae									
246 <222> LOCATION: (1) (780) 248 <400> SEQUENCE: 5 249 atg aat ctc cgc ctg ttg acc ctt gct ctc gct gtg gcg gct gca 48 250 Met Asn Leu Arg Leu Leu Thr Leu Ala Leu Ala Ala Val Ala Ala Ala Ala 251 1	244	<220)> FI	EATUI	RE:														
248 <400> SEQUENCE: 5 249 atg aat ctc cgc ctg ttg acc ctt gct ctc gct gct gtg gcg gct gca 48 250 Met Asn Leu Arg Leu Leu Thr Leu Ala Leu Ala Ala Val Ala Ala Ala Ala 251 1																			
249 atg aat ctc cgc ctg ttg acc ctt gct ctc gct gtg gcg gct gca 48 250 Met Asn Leu Arg Leu Leu Thr Leu Ala Leu Ala Ala Val Ala Ala Ala Ala 251 1							(78	30)											
250 Met Asn Leu Arg Leu Thr Leu Ala Leu Ala Ala Val Ala Ala Ala Ala 251 1																			
251 1 5 10 15 253 agt cca gta gat atc cag gaa cgc cag ctc tcc ggc gga aac gag ctg 96 254 Ser Pro Val Asp Ile Gln Glu Arg Gln Leu Ser Gly Gly Asn Glu Leu 255 20 25 30 257 cga gat ggc tct tgc aag ccg atc acc ttc atc ttt gcc cgc gct tcc 144 258 Arg Asp Gly Ser Cys Lys Pro Ile Thr Phe Ile Phe Ala Arg Ala Ser 259 35 40 45 261 aca gag cca gga ctt ttg ggt ata tca act ggc cct gca gtc tgc aat 192																			48
253 agt cca gta gat atc cag gaa cgc cag ctc tcc ggc gga aac gag ctg 254 Ser Pro Val Asp Ile Gln Glu Arg Gln Leu Ser Gly Gly Asn Glu Leu 255 20 25 30 257 cga gat ggc tct tgc aag ccg atc acc ttc atc ttt gcc cgc gct tcc 258 Arg Asp Gly Ser Cys Lys Pro Ile Thr Phe Ile Phe Ala Arg Ala Ser 259 35 40 45 261 aca gag cca gga ctt ttg ggt ata tca act ggc cct gca gtc tgc aat 192			Asn	Leu	Arg	Leu	Leu	Thr	Leu	Ala		Ala	Ala	Val	Ala		Ala		
254 Ser Pro Val Asp Ile Gln Glu Arg Gln Leu Ser Gly Gly Asn Glu Leu 255 20 25 30 257 cga gat ggc tct tgc aag ccg atc acc ttc atc ttt gcc cgc gct tcc 144 258 Arg Asp Gly Ser Cys Lys Pro Ile Thr Phe Ile Phe Ala Arg Ala Ser 259 35 40 45 261 aca gag cca gga ctt ttg ggt ata tca act ggc cct gca gtc tgc aat 192				~+ -	~~+	5	~~~	~~~											0.0
255 20 25 30 257 cga gat ggc tct tgc aag ccg atc acc ttc atc ttt gcc cgc gct tcc 144 258 Arg Asp Gly Ser Cys Lys Pro Ile Thr Phe Ile Phe Ala Arg Ala Ser 259 35 40 45 261 aca gag cca gga ctt ttg ggt ata tca act ggc cct gca gtc tgc aat 192																			90
257 cga gat ggc tct tgc aag ccg atc acc ttc atc ttt gcc cgc gct tcc 144 258 Arg Asp Gly Ser Cys Lys Pro Ile Thr Phe Ile Phe Ala Arg Ala Ser 259 35 40 45 261 aca gag cca gga ctt ttg ggt ata tca act ggc cct gca gtc tgc aat 192		Set	PIO	vaı	_	116	GIII	GIU	Arg		пеп	Ser	GIY	GIY		GIU	Leu		
258 Arg Asp Gly Ser Cys Lys Pro Ile Thr Phe Ile Phe Ala Arg Ala Ser 259 35 40 45 261 aca gag cca gga ctt ttg ggt ata tca act ggc cct gca gtc tgc aat 192		cga	gat	aac		tac	aag	cca	atc	-	ttc	atc	+++	acc		act	tcc	1.	44
259 35 40 45 261 aca gag cca gga ctt ttg ggt ata tca act ggc cct gca gtc tgc aat 192																		1	
261 aca gag cca gga ctt ttg ggt ata tca act ggc cct gca gtc tgc aat 192		- 9.		_		- J D	-10	0							9				
		aca	qaq		qqa	ctt	tta	qat	-	tca	act	qac	cct		qtc	tac	aat	1	92
262 Thr Glu Pro Gly Leu Leu Gly Ile Ser Thr Gly Pro Ala Val Cys Asn																			

RAW SEQUENCE LISTING DATE: 10/06/2006 PATENT APPLICATION: US/10/532,423 TIME: 10:09:14

263		50					55					60					
	ggc		aaq	atq	acc	aaa	aca	aac	caa	qta	act		caq	aat	att	qqa	240
						Lys											
267			•			70		-			75	4				80	
269	ccc	aaq	tac	acq	qca	gac	ctc	qca	tca	aat	qct	tta	ccc	qaq	aac	acq	288
						Asp											
271		•	•		85	-				90					95		
273	tcc	cca	act	qcc	atc	caa	αaα	qca	caa	qac	cta	ttc	caq	caq	acc	atc	336
						Gln											
275				100					105	-				110			
277	acc	aaa	tac	cct	qac	acc	caa	att	att	qcc	aat	aat	tat	aqc	caa	ggc	384
						Thr											
279		•	115		-		•	120			-	, -	125			4	
281	aca	qcc	qtq	atq	qat	gac	tcc	atc	aaq	cat	cta	cca		aac	ata	aaa	432
						Asp											
283		130			-	•	135		•			140	-			•	
285	qaq	aaq	atc	aaq	aat	gtc	ata	ctc	ttc	qqc	tac	acc	cqc	aac	qca	caq	480
						Val											
	145	-		•	•	150				- 4	155					160	
289	qaa	cac	qqt	caq	att	gcc	aac	ttt	ccc	aaq	qac	aaq	qtc	aaq	qtc	tac	528
						Āla											
291			-		165					170	•	•		•	175	•	
293	tgt	qcc	gta	qqc	gat	atg	qtc	tgt	qac	qqc	acc	ttq	atc	ata	qqq	ccc	576
						Met											
295	-			180	_			-	185	-				190	_		
297	gcc	cat	ttc	act	tac	ctg	ggt	aac	acc	ggc	gaa	gca	act	cag	ttc	ttg	624
						Leu											
299			195		-		_	200		-			205				
301	ctt	ggt	aag	ctg	agt	gct	tcg	tct	tcg	tct	tcg	tct	tca	tcc	ggt	tct	672
302	Leu	Gly	Lys	Leu	Ser	Āla	Ser	Ser	Ser	Ser	Ser	Ser	Ser	Ser	Gly	Ser	
303		210					215					220			_		
305	tcg	gat	act	tcg	tcc	gca	tca	aca	tcc	gct	gct	gct	gac	tct	tct	tcg	720
306	Ser	Asp	Thr	Ser	Ser	Ala	Ser	Thr	Ser	Ala	Ala	Ala	Asp	Ser	Ser	Ser	
307	225					230					235					240	
309	tct	tcg	tct	tct	tca	tcg	tcg	cct	ttt	ggg	aat	ctt	ggt	aat	ctc	ttt	768
310	Ser	Ser	Ser	Ser	Ser	Ser	Ser	Pro	Phe	Gly	Asn	Leu	Gly	Asn	Leu	Phe	
311					245					250					255		
313	ggt	gga	ctc	tag													780
314	Gly	Gly	Leu														
318	<210)> SI	EQ II	ON C	: 6												
319	<211	l> LI	ENGTI	I: 52	25												
			PE:														
					Aspe	ergil	llus	oryz	zae								
			EATUF														
			ME/F														
						(52	25)										
			EQUEN														
						gtc											48
329	Met	Leu	Ala	Lys	His	Val	Leu	Ala	Val	Leu	Leu	Ser	Val	Gly	Ala	Ser	

RAW SEQUENCE LISTING ERROR SUMMARY

DATE: 10/06/2006 TIME: 10:09:15

PATENT APPLICATION: US/10/532,423

Input Set : A:\2006-09-28 4600-0112PUS1.txt
Output Set: N:\CRF4\10062006\J532423.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:30; N Pos. 3,6,9,12,15,18 Seq#:31; N Pos. 1,4,7,10,13,16 VERIFICATION SUMMARY

DATE: 10/06/2006

PATENT APPLICATION: US/10/532,423

TIME: 10:09:15

Input Set : A:\2006-09-28 4600-0112PUS1.txt
Output Set: N:\CRF4\10062006\J532423.raw

L:740 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30 after pos.:0 L:783 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31 after pos.:0